

To be filled in
by the retailer

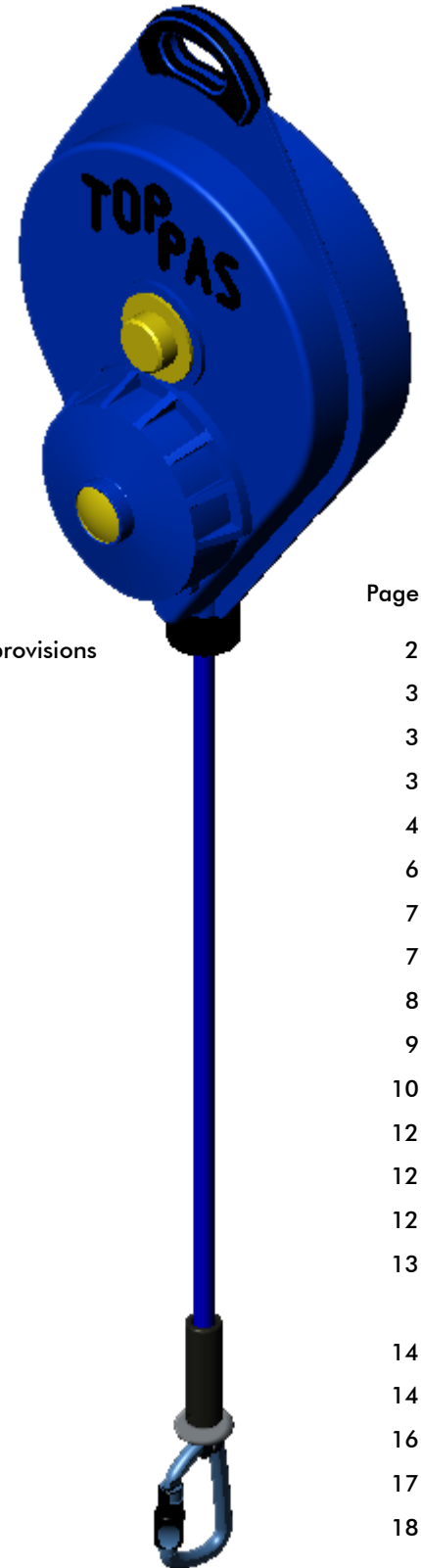
Name, Company

Address:

Telephone

Fax

Email:



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TOPPAS

Operating instructions

EC Manufacturer's declaration/EC Declaration of conformity/

ntt Neuhaus Trans Tech GmbH, St.-Korbinian-Str. 8, 83626 Valley declares that

TOPPAS descender device
with carabiner

Serial No.:
Operating company:

delivered by ntt Neuhaus Trans Tech GmbH complies with the following prevailing safety regulations:

TOPPAS
Carabiner
Operating instructions/ Identification

EN 341 / EN 360
EN 362 / EN 12275 Type K
EN 365

C sign affixed
C sign affixed

The TOPPAS can be used as a climbing system/anchorage device only in combination with other components. It may not be commissioned until it is ensured that the entire system complies with the stipulations of EC directives/standards. The TOPPAS has been tested in accordance with the prevailing EN standards. ntt shall not bear any liability for deliveries in countries which do not accept this standard or which use standards or legal grounds deviating from this standard. ntt has covered the normal operations of the device through an industrial third party insurance. Within the scope of this insurance, ntt is liable to the buyer. Other claims, especially claims for damages arising from subsequent damage, are ruled out irrespective of the legal grounds. If the device is re-sold or rented out, the seller is under obligation to notify it to ntt, to document the condition of the device and to provide the video of current instructions to users and operating companies.

Guarantee provisions

1. ntt assumes guarantee for manufacturing and material defects for the duration of 24 months after the date of delivery. This shall not affect the inspection and maintenance intervals to be followed
2. For devices repaired by ntt, we assume guarantee for proper installation and replaced spare parts. Any claim for guaranteed, general function and safety of older devices has been ruled out.
3. This guarantee does not include any other liability and includes replacement and repairing of parts detected as defective by ntt.
4. For checking the complaints and repairs, please send the TOPPAS to the address of ntt. ntt shall not bear any costs for transportation or consequential damage, costs for dismantling, installation, packaging or downtime.
5. The guarantee does not include
 - parts that wear out prematurely due to intensive usage (e.g. safety cable)
 - Parts of other manufacturers and the parts that have not been installed by ntt
 - The TOPPAS and parts that have been modified or repaired without the manufacturer's consent
 - The TOPPAS and parts that are damaged due to improper usage and application.
6. The TOPPAS and accessories must ensure the safety of persons; they must therefore be installed, operated, handled and repaired as per the manufacturer's specifications.
Depending on the load and condition, ntt must repair the TOPPAS and accessories at **regular intervals**, however, at least after every 12 months, and check them for their flawless condition. The prevailing statutory regulations applicable at the installation site must be observed.
7. Guarantee claims can be asserted, only if these legally-binding guarantee provisions are signed by the customer or the operation company and sent back to ntt. With their signatures, the customer and/or the operating company agrees to these guarantee provisions.
8. In case of a guarantee claim, always send a copy of the signed guarantee provisions.

To be filled in by the operating company:

Invoice address:

Delivery address:

Name, Company

Name, Company

Address

Address

Telephone

Telephone

Fax

Fax

Email

Email

_____, date _____

- Operating company / Customer / Retailer -

1. Operating instructions

1.1 Device identification

The TOPPAS is identified at the front and rear side of the device as well as on the grip sleeve

- | | |
|---|--|
| 1. Manufacturer:
ntt GmbH
St-Korbinian-Str. 8
D-83626 Valley | 2. Certifying authority:
DEKRA EXAM GmbH
Dinnendahlstr. 9
D-44809 Bochum
CE 0158 |
| 3. Brief instructions | 4. Device number |
| 5. Year of manufacture | 6. Cable length (20 or 30 m) |
| 7. Yearly mandatory test | 8. Pictogram |
| 9. Grip sleeve references | |

1.2 General information

These user instructions are applicable for

- TOPPAS descender device, tested as per EN 341 and EN 360, available with a 20 m or a 30 m cable with an integrated protection tube (60 cm), grip sleeve, including the EN 12275 compliant carabiner by PETZL Am'D BALL LOCK (automatic dual lock) as well as an upgrade option with two additional one-hand carabiners. The aforementioned components form a unit and may not be changed or extended.
- Operating instructions as well as the video are regularly updated and can be downloaded from <http://www.ntt-valley.de/e-toppas.html>.
- The customer/reseller of TOPPAS must ensure that the latest version of these instructions to users and operating companies and the video are provided to the end customer, the in-charge and users of TOPPAS, and that they have understood and will follow these instructions. If required, these instructions and the video can be provided in the language of a particular country. The name of the end customer must always be notified to us.
The end customers or user must be able to handle TOPPAS properly. Please contact ntt for information and training courses.
- Protect the TOPPAS against unauthorised access

1.3 Intended use of TOPPAS

- The TOPPAS must be used for the intended purpose only in the technically flawless condition. **In case of faults or damage, the operation of TOPPAS must be stopped immediately and NTT must check it.**
- **The operation inspection sheet must be updated daily**
- The operating company and/or the company must ensure that the user instructions have been understood and are followed, are always accessible and at least a brief instructions sheet (pictogram) is affixed near the installation site.
- The supplier/manufacture shall not be responsible for damage caused due to improper usage or modification of the TOPPAS.
- The TOPPAS functions as an effective system only in combination with an anchorage device and a personal full body or climbing harness.
- The TOPPAS does not hold the user, but allows him/her to descend in a decelerated manner. It therefore does not provide protection against free falls, snagging, banging or bumping.

WARNING!

If the descent process is interrupted or if the user snags onto something, he/she should not change his/her position even if it is uncomfortable.

The safety cable must remain tautly connected with the user. The carabiner should never be disengaged and the safety cable should not be pulled out. A rescue operation must be initiated in such a case. Only then can the protection against falls be ensured in such a situation.

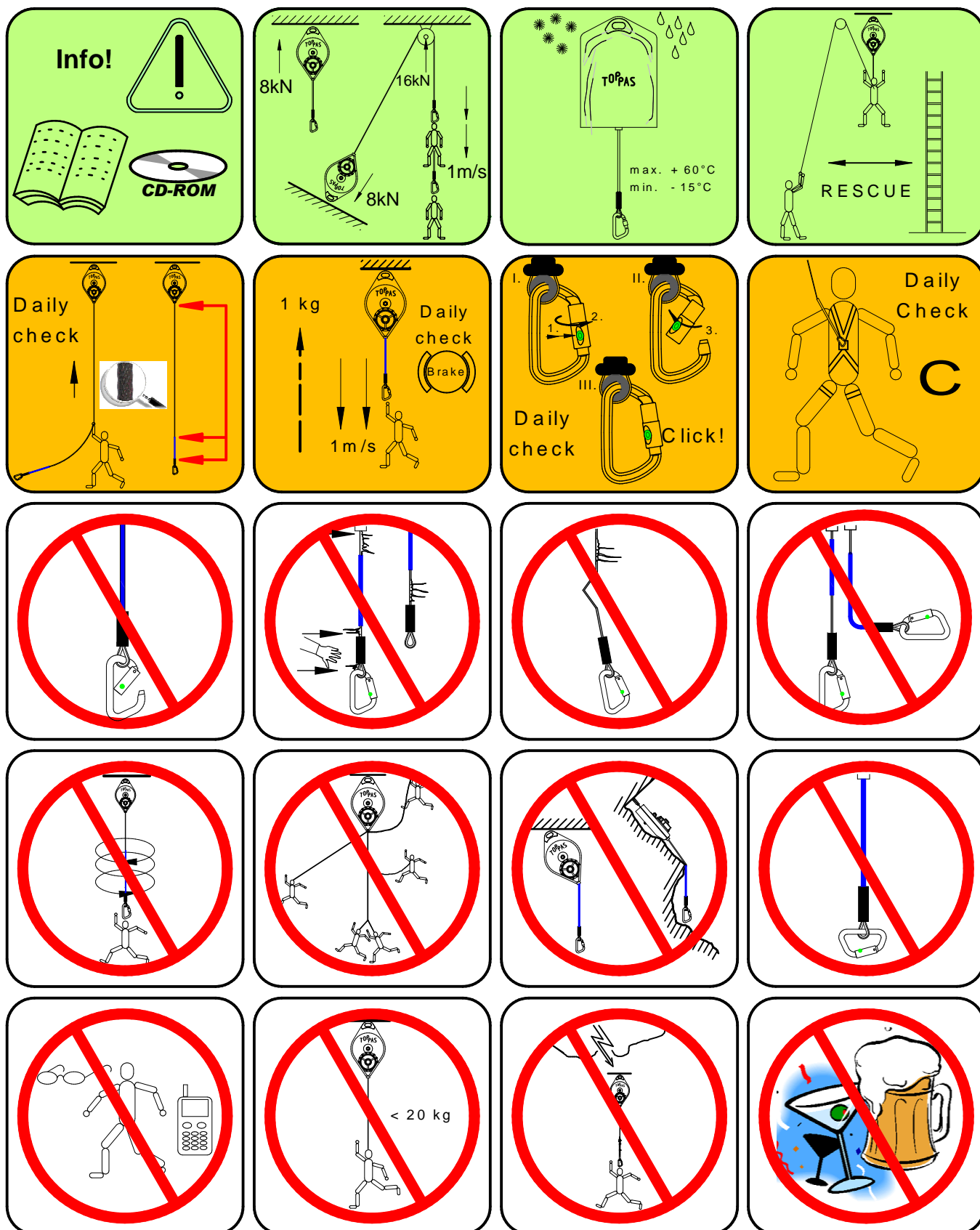
If the retraction process is interrupted when climbing, i.e. if the cable attached to a person or a device slackens, the climbing process must be stopped immediately. The aforementioned information must be given to every user before starting the climbing process.

- A safety and functional test must be conducted before using the TOPPAS each time.
 - ◆ **Check whether the carabiner is clean and locks automatically with minimal effort**
 - ◆ **The braking effect must be noticeable when pulling the TOPPAS cable,**
 - ◆ **When retracting, the TOPPAS cable must be retracted completely using a tractive force of min 1 kg (without an auxiliary cable)**
 - ◆ **The cable should not slacken when climbing.**
 - ◆ **The entire section of the TOPPAS cable must be undamaged.**

The completely spooled-in state indicates an out-of-use position. The TOPPAS cable should therefore not be released freely, but in a controlled manner using an auxiliary cable and under pre-tension.
- The auxiliary cable must be extremely light and should not be attached to the cable, the blue tube or the grip sleeve, but to the carabiner
- Twists in the cable may damage it
- **Depending on the load and condition, ntt must repair the TOPPAS at regular intervals, however at least once a year. A carabiner may need to be inspected or replaced prematurely in case of intensive usage (Checking the wear - see page 9) or due to other conditions (e.g. damage to the cable, see page 10). Negligence could be fatal or lead to severe damage.**
- Only the certified anchorage points and anchorage device compliant with EN 795/12572 must be used. These must be positioned perpendicular over the descent or landing area. The load bearing capacity of the TOPPAS is 8 kN and 16 kN at a 180° deflection pulley.
- TOPPAS may be installed only at such a height that a pull-out reserve of at least 2 m is always available
- In case of a suspended arrangement, the TOPPAS must be attached at an adequate distance from the climbing wall (minimum 200 mm) such that it is flexible in all directions. It must be ensured that the load is transferred over the large area of the TOPPAS suspension and the deflections at the cable inlet and outlet are minimal in all operating conditions. (Also see the instructions for installing the accessories)
- Climbing grips must be procured and positioned such that no lateral, banging or oscillating movements are possible in the upper section and the possibility of climbing over the TOPPAS is ruled out.
- Deviating applications, installation positions, modifications or additions to the device unit must be checked and approved by ntt in writing.
- The distance between the TOPPAS and the landing area should not be greater than the maximum cable length of the TOPPAS.

- The descent area must be free from persons, obstacles and possibilities of snagging.
- The landing area must be covered using shock-absorbing material in conformity with the applicable standards.
- **The TOPPAS cable and the blue protection tube with a grip sleeve should not run over edges or should not be deflected using carabiners or inadequate deflectors which hinder the free cable retraction and should not be bent towards each other or twisted when handling the protection tube with the black grip sleeve.**
- Only a suspended installation position is allowed for outdoor applications. A rain hood must be provided in such a case.
- Operation must be stopped if there are any indications of thunderstorms or if darkness sets in. Wind the TOPPAS cable (protection against lightning)
- The TOPPAS should not be exposed to extreme temperatures ($< -15\text{ }^{\circ}\text{C}$, $> +60\text{ }^{\circ}\text{C}$) or chemicals, high humidity over a long time, splash water from below, corrosive sea air, sand, dust, etc.
- The drawing-in speed may reduce at operating temperatures below $5\text{ }^{\circ}\text{C}$
- In case of long standstill periods, dismantling the TOPPAS is recommended. Store it in a dry place at room temperature.
- The TOPPAS cable must be kept free of dirt and grease (cloth). It should however not be degreased using solvents.
- **The TOPPAS may be used only by one person who has completed the professional training and is well aware about the functioning of the carabiner, proper attachment of the climbing harness, the climbing and descent process, landing as well as detaching the carabiner. TOPPAS may not be serviced or used by persons with restricted physical and mental ability or persons without adequate experience and knowledge.**
- **Basic knowledge of the climbing process is a prerequisite. In the initial position, when descending and after landing, distortions that may lead to twists in the cable must be avoided. Always ensure that there are no twists in the cable.**
- Users must be in a good physical condition suitable for this sport.
- The full body or climbing harness used must be flawless and it must be ensured that the increased catching forced in case of a possible overhead crash are securely absorbed and that any chance of the climbing harness slipping is ruled out. When handled properly, this action is ensured by a complete harness or a sit harness in combination with a breast harness equipped with an EN 361/12275 compliant cable ring or a retainer ring at the front.
- Harnesses and clothes must fit snugly over the body. Loose objects such as mobile phones, keys, coins and spectacles (unless the spectacles are unbreakable and worn) should not be taken along.
- Users are not allowed to "climb over" the TOPPAS. The cable must not slacken. The TOPPAS cable must not be subjected to excessive lateral movements and users are not permitted to jump onto the cable.
- Suitable rescue measures must be provided in case of excess speed, blocking or snagging. Devices such as climbing ropes, climbing clamps, ladders, etc. can be used as rescue aids. A speedy rescue operation must be possible.
- Unless otherwise specified by the operating company, liability for the following cases is ruled out:
 - ◆ Persons under the influence of drugs
 - ◆ Persons with body weight under 20 kg
 - ◆ Using a non-original harness or carabiner and direct consequences associated with it, see above.
 - ◆ Dirty clothes due to leakage of lubricant (device, cable)

1.4 Brief instructions



1.5 TOPPAS - description of devices

The TOPPAS is an automatic safety device for ascending and descending processes, e.g. artificial climbing walls, stunts, shows. It is used for securing one person from top (**TOP**) (**P**ersonal**A**scent**S**afety)
 ⇒ without any assistance by another person - hence the name **TOPPAS**.

The TOPPAS consists of a closed casing. The TOPPAS cable is rolled onto a spring-loaded cable drum. The descent path is restricted by the total length of the cable as given in the device identification.

The TOPPAS has a service brake. When descending, the descent velocity is restricted to approximately 1 m/s. However, the user does not come to a standstill.

An additional safety brake with an impact restrictor works only in case of unplanned excess speed.

TOPPAS - device accessories

- Rain hood (outdoor applications)
- Different brackets

1.6 TOPPAS - technical data

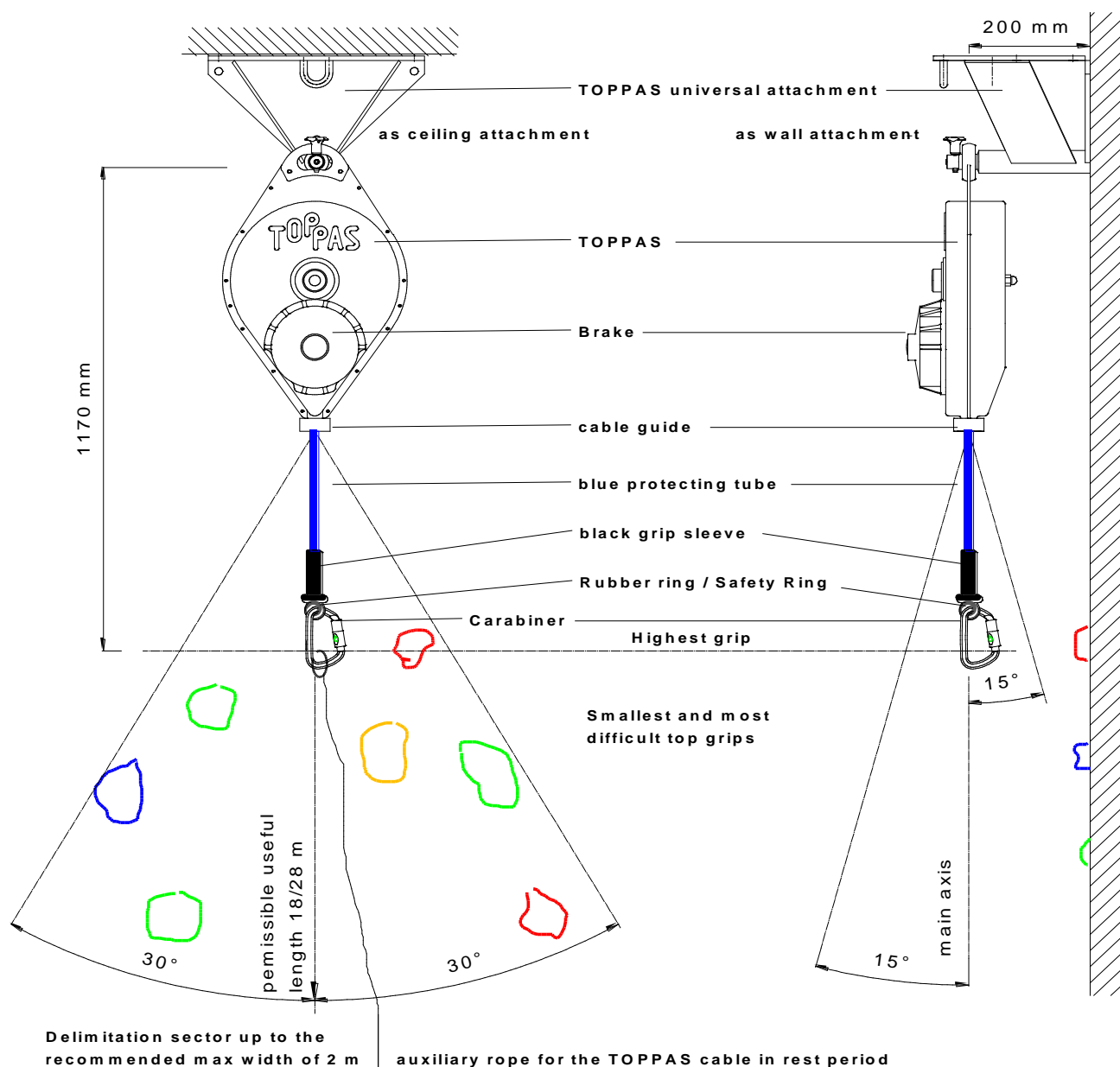
Dimensions (H/B/D):	57 x 30 x 15 cm	Descent velocity:	Approximately 1.00 m/s
Weight:	23 kg	Drawing-in speed:	Approximately 0.50 m/s
		Drawing force:	Min 1 kg (10 N) without an auxiliary cable
Cable/extension length:	20 m/30 m	Brakes:	Centrifugal brake system with three shoes
max. permissible useful length:	18/28 m	Blocking system:	Independent, speed-controlled, dynamic blocking system
Cable type:	Steel cable	Inspection interval:	At least once a year; even shorter depending on the load and condition
Cable diameter:	5 mm		
Permissible load:	1 person		

1.7 Attaching a TOPPAS anchorage point or a TOPPAS deflector (Especially for climbing walls)

Also refer to corresponding instructions for anchorage devices. The anchorage point for the TOPPAS must be calculated such that a load of 8 kN or 16 kN can be induced for 180° deflection pulleys by taking the component safety into account. The cable must wind up linearly when descending (along the main axis of the device). The load must be transferred to the bracket over a large area (large pins or sleeves).

Climbing grips must be positioned such that the cable deflection is minimal (see the figure) in order to prevent oscillations. In case of a perpendicular or incline installation (cable guide over pulleys), the TOPPAS must be aligned securely.

We also refer to DIN EN 12572-1 for safety issues related to manufacturing, dimensioning and inspection of climbing walls



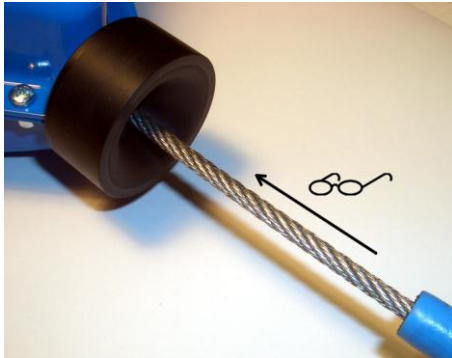
1.8 Checking/inspecting the TOPPAS

The operating company/owner of the TOPPAS must inspect it at least **once a year**, irrespective of the working conditions or even prematurely or earlier if the cable or the device is damaged. In case of damage, malfunctions or failures, the operation of the TOPPAS must be stopped immediately and it must be sent back to the manufacturer for inspection.

The inspection is exclusively carried out by **ntt GmbH, St.-Korbinian-Str. 8, 83626 Valley**.

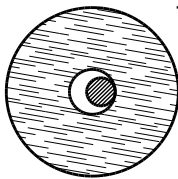
Before every use, an expert must check the **TOPPAS device, the TOPPAS cable, the carabiner, the full body or climbing harness** for the condition, functioning, completeness and possible damage. Moreover, an operation inspection sheet must be maintained, see 1.12 for this purpose.

Checking the wear and tear in the TOPPAS and the cable inlet



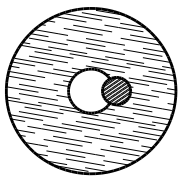
Defective installation or intensive use of the TOPPAS (e.g. lateral deflection of the cable) can be detected through corresponding wear marks in the feed hopper of the cable guide.

Original condition feed hopper of the cable guide



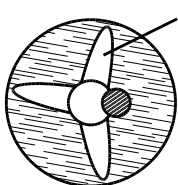
TOPPAS-cable

Wear condition that makes premature inspection essential



TOPPAS-cable

Defective cable inlet due to strong diagonal pull; service life of the cable is reduced



Intake traces

TOPPAS-cable

- Distinct cable guiding marks are visible on the hopper surface due to diagonal pull (lateral climbing, impacts)

1.9 Damage to the cable

The TOPPAS cable must be monitored and checked reliably and with utmost care. Negligence could be fatal or lead to severe damage.

Every day or after short intervals in case of intensive usage, check the TOPPAS cable for wire breakage or other changes and whether it can be drawn smoothly over the entire range of usage since the drawing function may be damaged due to wire breakage. (See the operation inspection sheet). Always wear safety gloves when working.

- Pull out the TOPPAS wire cable over the entire range of use and then slowly unwind it manually up to the blue protection tube by deflecting it slightly. When unwinding, keep the cable under pre-tension and always pull it tight in one go (compact winding).
- Push the blue protection tube from the black grip sleeve upwards. This will bend the cable. Check this cable section and especially the section up to the black grip sleeve thoroughl. The grip sleeve has a slot through which the cable can be seen up to the pressing. This slot can also be used to clean the cavity (compressed air). Then push the black grip protection tube by approximately 30 mm into the black grip sleeve; see the marking on the tube. If you can no longer push the protection tube or push it with great difficulty, it indicates a possible wire breakage.
- In exceptional cases such as extreme contamination or exposure to corrosive mediums, even the black grip sleeve can be completely removed along with the blue protection tube for the purpose of inspection and cleaning. See chapter 3 for the procedure.

In case of the following damage types, the TOPPAS cable must be replaced immediately irrespective of its condition:

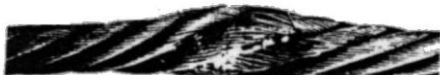
- More than 1 wire breakage in the entire cable. Wire breakage means a broken individual wire.
- Patches of rust or bluish marks (outdoor application after a lightning)
- Cable diameter reduced to < 4.9 mm
- Deformations or damages in the cable as illustrated:



Wire
breakage



Wire breakage
at the thimble



Crimping



Remaining
cable
deformation



Wire breakage
on the black
grip sleeve



Remaining
cable de-
formation on
grip



Rust



Kink



Rust at the
cable in the
grip sleeve

Handling when checking the cable

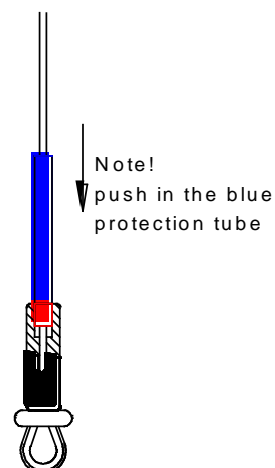
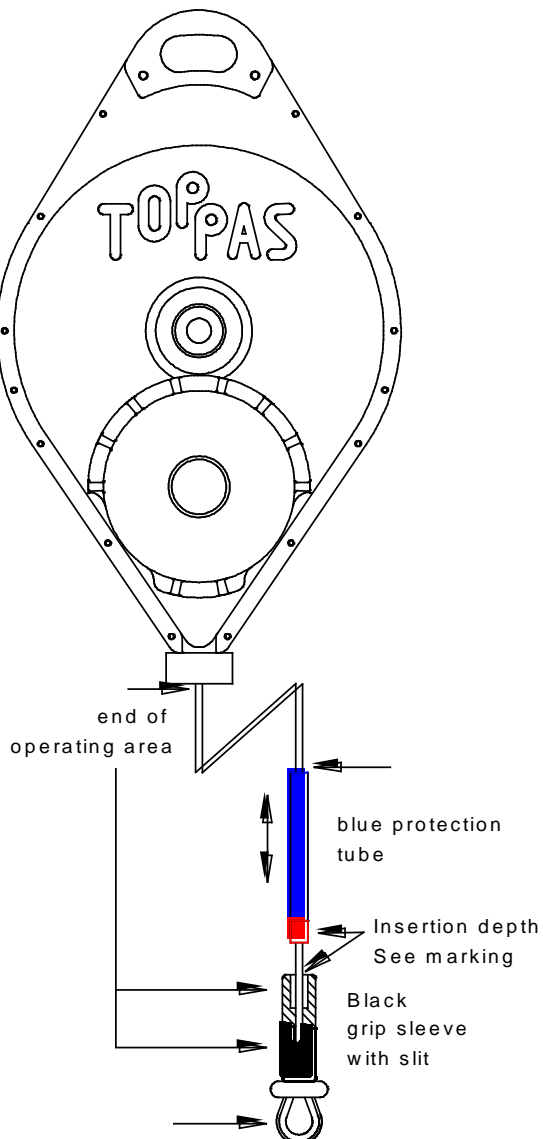


Cable is OK



Cable is defective

Critical places for examination



1.10 TOPPAS – carabiner

The prescribed Petzl Ball Lock carabiner offers the advantage of easy handling with automatic dual lock without pulling or pushing only if the user is aware of the function. The carabiner is safe only if it locks automatically, which means that it must be **checked every day for smooth operation and locking**.

(see the operation inspection sheet).

The carabiner must be changed immediately if the rotating sleeve or the snap catch mechanism does not function or lock automatically and smoothly, and if deformations/wear are visible.

1.11 Attaching the carabiner to the TOPPAS

Follow the drawing when inserting the rubber bushing and the carabiner.

Petzl AM'D Ball Lock
 Press - Turn - Open



Tip:

Apply lubricant on the spout or the safety ring and then on the carabiner so that they can be assembled easily

1.12 Proper handling and attachment of cable harness

Do not bend the grip sleeve of the protection tube.



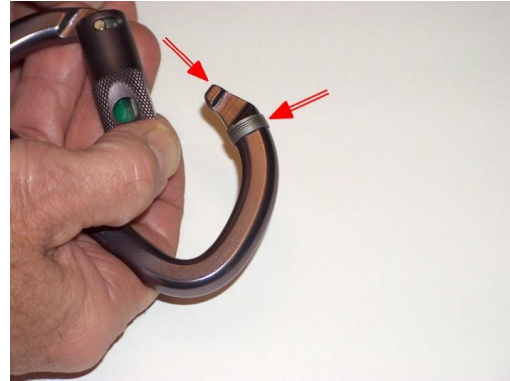
1.13 Attaching the additional carabiner (Optional Art. No. 50129)

The interconnected dual carabiner safety device is a customary "redundant" and easy-to-handle solution for alpine climbing.

It is installed on the built-in Petzl Ball Lock carabiner. The spring securing element is inserted into the carabiner sleeve to ensure protection against opening and theft.



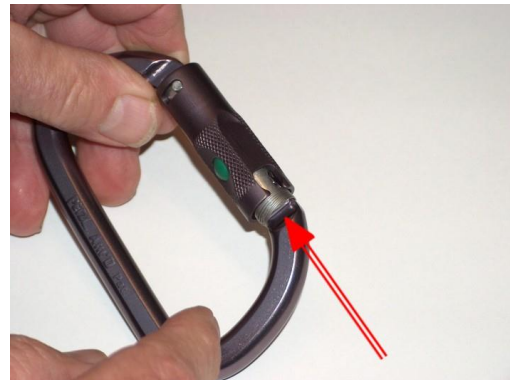
Open the carabiner



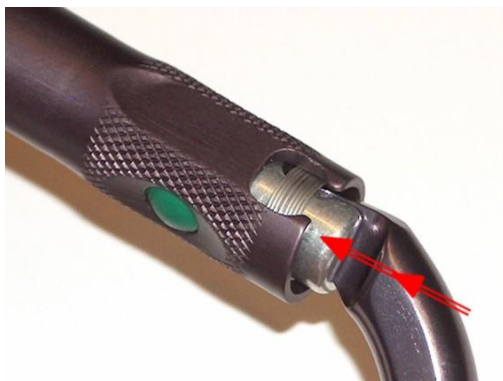
Insert the spring securing element into the open carabiner



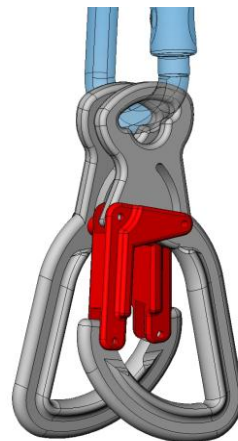
Close the carabiner



Press and turn (clockwise) the spring securing element on the aluminium sleeve of the carabiner



Push the spring securing element up to the end in the opening



2. Annexes

2.1 Checklist for detecting and rectifying the faults in the TOPPAS

Please fill in this list and send it to us in case of faults

No.	Problem	Yes	No	Cause	Solution
10	Carabiner				
11	Snap catch is not functioning smoothly			Dirt in the joint	Blow clear
12	Snap catch does not close automatically			Contaminated rotating sleeve	Clean, blow clear
				Rotating sleeve deformed, defective spring	Replace the carabiner
13	Snap catch does not engage into the base plate			The base plate slot is dirty	Clean
				The base plate slot is deformed	Replace the carabiner
14	Anti-twist lock (green ball) does not function			The base plate slot is dirty	Clean, blow clear
				The base plate slot is deformed	Replace the carabiner
15	Additional carabiner				
16	Snap catch is not functioning smoothly			Dirt in the joint	Blow clear
17	Snap catch does not close automatically			Lock is deformed	Replace the carabiner
				Spring has slackened	Replace the carabiner
18	Snap catch does not engage into the base plate			The base plate slot is dirty	Clean

20	Device				
21	Device jerks when descending			Dust, worn out brakes, Magnesium or moisture in the brake Foreign bodies in the toothing	Blow clear the brake (Use 2 holes at the bottom) Let it dry (use the rain hood) Inspection
22	Descent process is interrupted (Engage the safety brake)			Moisture in the Brake	Blow clear the brake (Use 2 holes at the bottom) Let it dry (use the rain hood)
				Defective diversion or deflection in front of the TOPPAS	Select the correct pulley
				Damage to the Housing	Inspection in the factory
				Unknown	Inspection in the factory
23	Descent process is too fast			Water in the brake	Let it dry (use the rain hood)
				Foreign bodies in the brake	Inspection in the factory
24	Retraction process is too slow, irregular, interrupted			Defective diversion or deflection in front of the TOPPAS	Select the correct pulley
				Damage to the housing	Inspection in the factory
				Spiral deformations in the cable	Inspection in the factory
				Partial cable deformation, wire breakages	Inspection in the factory
				Overlapping	Pull out the cable completely and slowly wind it again under pre-tension
				Spiral volute spring broken	Inspection in the factory
				Unknown	Inspection in the factory
				Auxiliary cable is too heavy	Lighter auxiliary cable
				Impermissible carabiner	Use the original carabiner

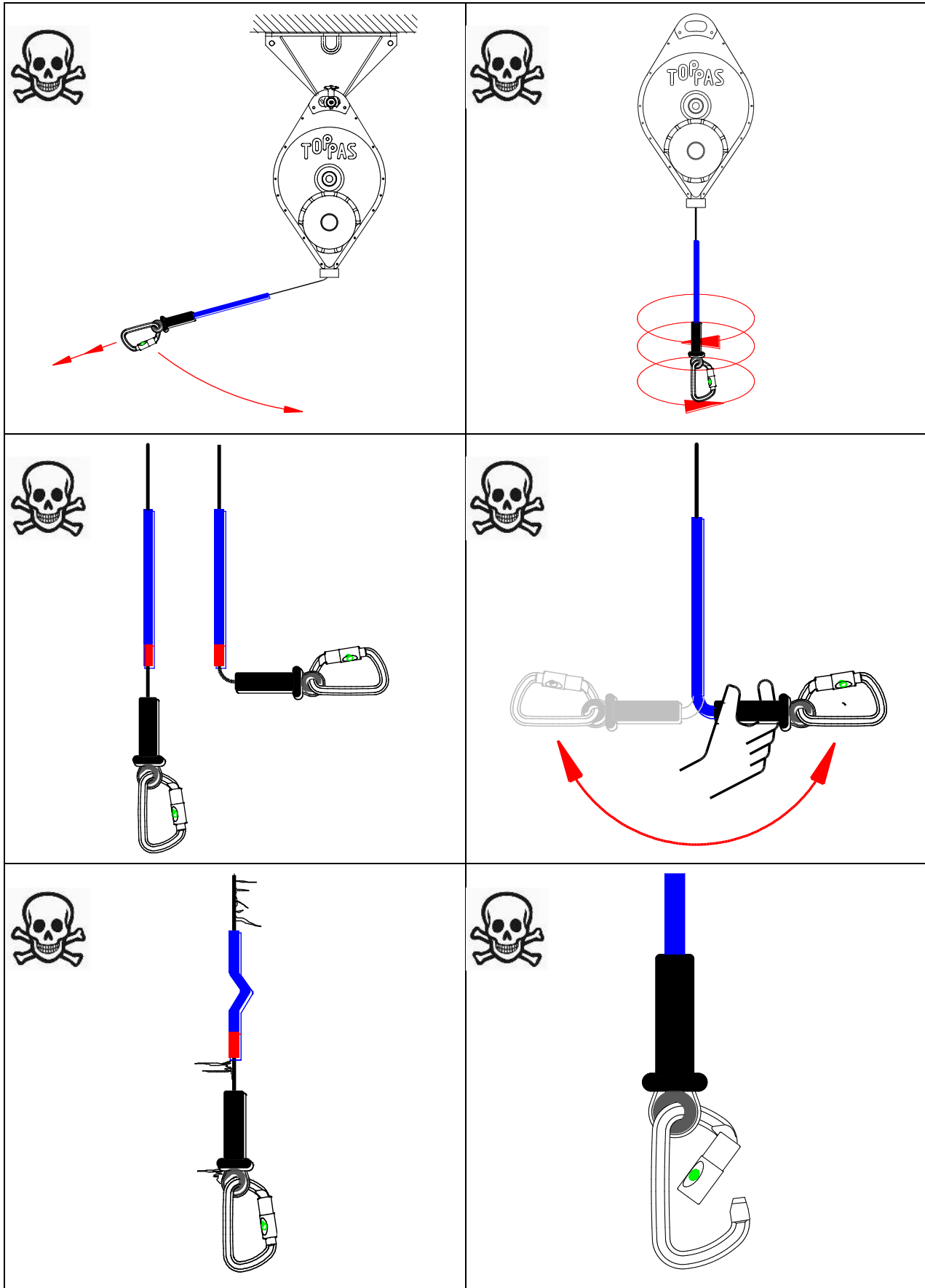
TOPPAS

Operating instructions

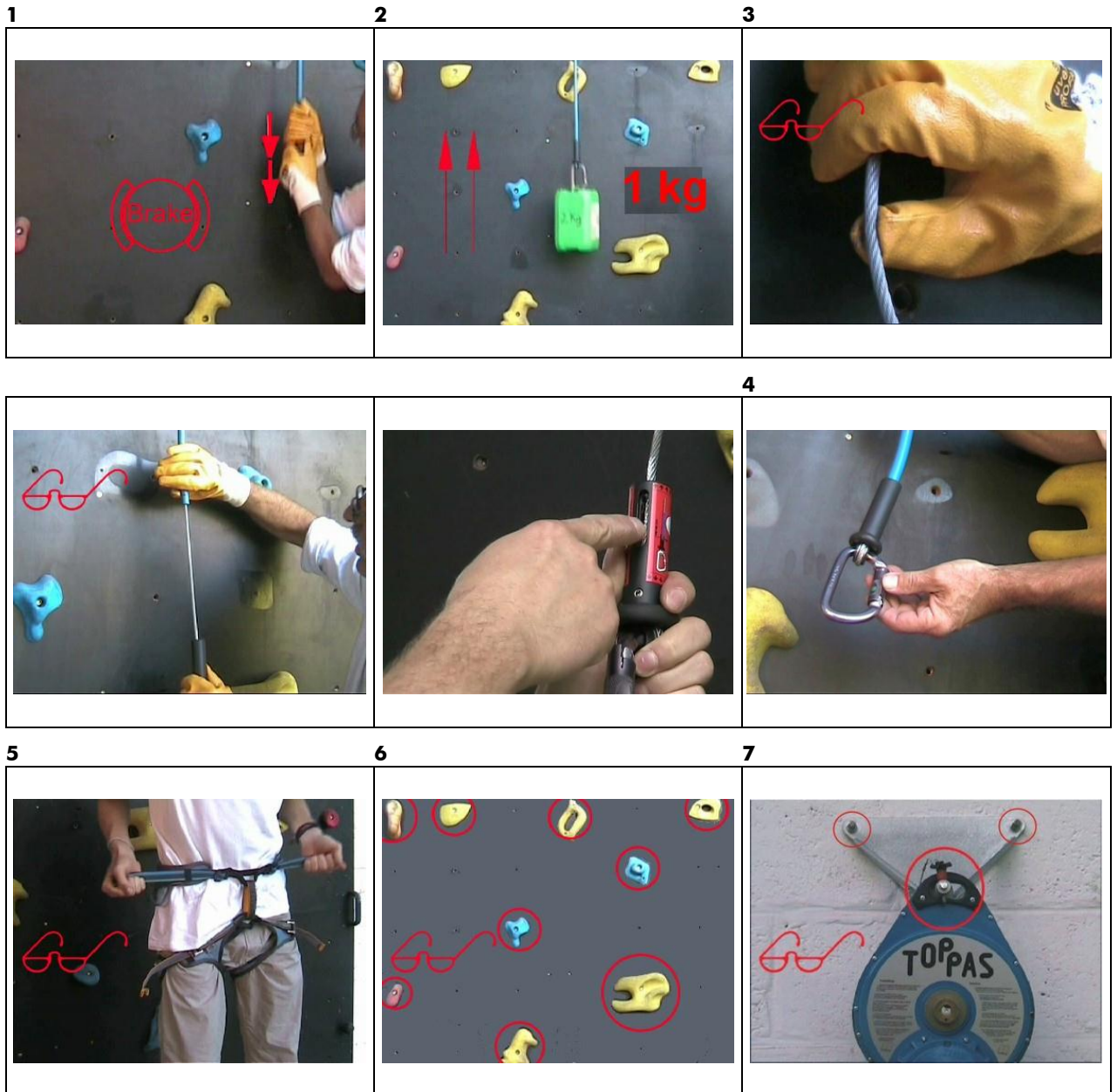
No.	Problem	Yes	No	Cause	Solution
30	Cable				
31	Spiral deformation or corkscrew shaped deformation			Cable outlet is not centred The TOPPAS is not aligned linearly The TOPPAS cable has jumped from the pulley	Inspection in the factory Align the TOPPAS properly
				Defective diversion or deflection in front of the TOPPAS Frequent oscillatory movement with a lateral pull	Select the correct pulley, see the instructions for accessories Monitoring
32	Wire breakages (A maximum of 1 wire breakage in the entire cable area → Revision)			Defective diversion or deflection in front of the TOPPAS, climbing from the side or top	Inspection in the factory
				Cable kink due to continuous bending stress	Inspection in the factory
				Blue tube is not in the grip sleeve.	Observe the marking
				Frequent severe deformation of the cable in the handling range Constriction in the cable winding	Monitoring) Controlled winding of the cable under pre-tension
				Cable twisted at several places	Monitoring
33	Cable guide has worn out diagonally			Crimped cable	Inspection in the factory
				Service life is expired	Inspection in the factory
34	Cable guide (see operating instructions – page 9)			Cable outlet is not centred, distinct cable marks on the cable guide Users climbed on the TOPPAS; lateral deviation is too large	Align the TOPPAS properly and arrange it flexibly Remove/replace climbing grips
40	Miscellaneous				
41	Mounting tab is deformed			Locating pin is too small	Absorption over a large area, Stainless Steel grips
	Device is damaged from outside			Oscillations, impact with the wall Incorrect installation, the device hits a surface during use	Remove/replace climbing grips Suspended installation
42	Rain hood damaged			The device hits a surface during use	Suspended installation

Customer's remarks:	
Customer's name:	
Customer No.:	
Device No.:	

2.2 Distinctive faults



2.3 Daily checks



TOPPAS

Operating instructions

2.4 Operation inspection sheet for TOPPAS

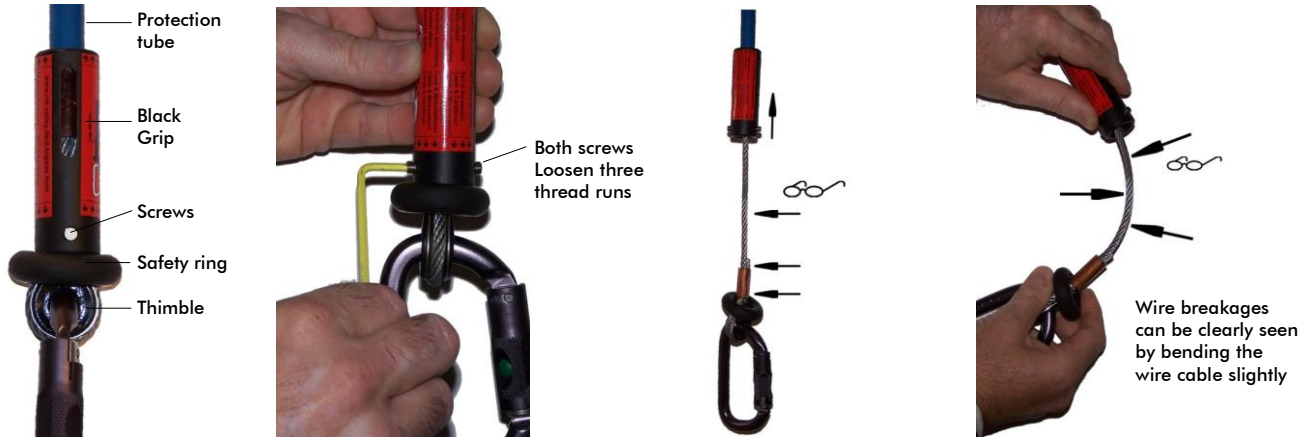
Month:

Year:

Operation inspection sheet					Operating company:				
TOPPAS descender device EN 341 class A - C 158					Page:				
Serial No.:					The operating company must ensure that the company or an expert and reliable person appointed by the company will execute the inspection tasks every day before commissioning the device and fill in the inspection sheet. The inspection sheet describes only the important tasks. Detailed information is given in the operating instructions. The obligation to preserve records is applicable for operation inspection sheets. For at least one year after an additional revision is carried out				
1.	Braking action when pulling out								
2.	Operation smoothness when retracting (1 kg)								
3.	Check the entire cable, especially at all critical points (see 1.9) → and wind under pre-tension								
4.	Closing function of the carabiner								
5.	Safety of climbing harness								
6.	Safety of grips and wall								
7.	Safety of TOPPAS bracket								
Check 1-7	Date	Signed by	Checked by	Comment	Check 1-7	Date	Signed by	Checked by	Comment
1.					1.				
2.					2.				
3.					3.				
4.					4.				
5.					5.				
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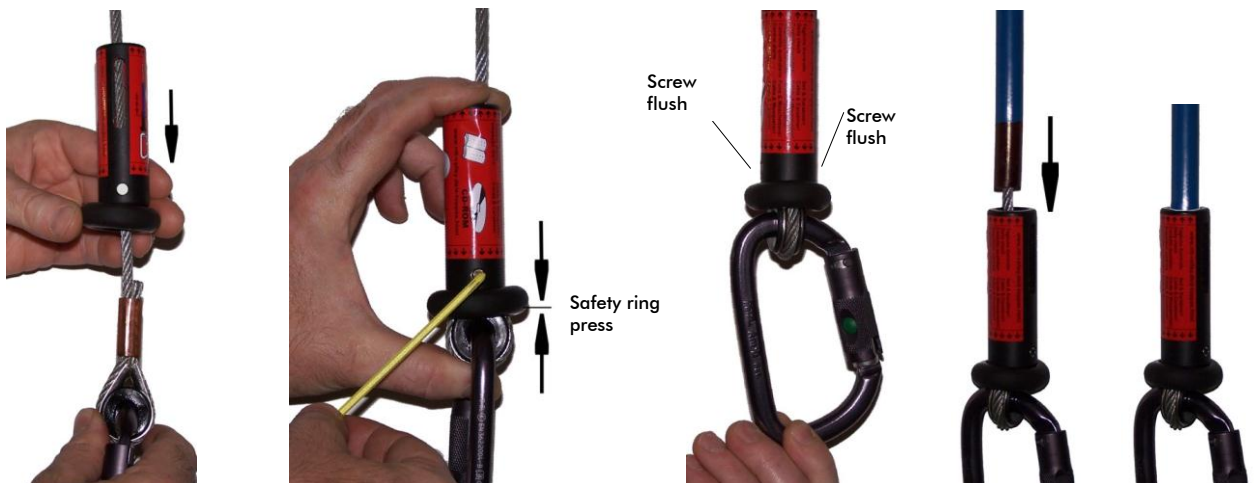
3. Inspection and cleaning under the grip sleeve

3.1 Grip sleeve dismantling



Loosen the two screws until three thread runs remain.
 Push the grip sleeve with the protection tube upwards and see the cable section.

3.2 Grip sleeve installing



Align the screw bores with the thimble
 Press the grip sleeve against the safety ring (system on the carabiner) and tighten the screws without any resistance only until they are flush with the grip sleeve.
 Push the blue protection tube properly by approximately 30 mm into the grip sleeve.

4. Revision of Toppas

Remove all loose parts and the parts that do not belong to TOPPAS

4.1 Packing

For packing, preferably use the proven returnable TOPPAS transport containers (Art. No. 50020); otherwise packing with at least LxWxH 60x36x23 cm

Use only the pure recyclable material as filling material. For non-recyclable material such as foam residues, cushions, etc., we will impose a disposal surcharge

Transport weight including the packing is approximately 25 kg

4.2 Accompanying documents

Please enclose the following delivery information

- Notifications regarding faults, special features, etc.
- Your invoice address, bank details, sales tax identification number
- Delivery address with the desired delivery date

4.3 Settlement

After receiving your TOPPAS devices, we will send you a cost estimate including the freight and packaging for the return consignment

After the mandatory payment transfer instructions or payment receipt, your devices will be delivered promptly along with the invoice

Cheques and credit card payments shall not be accepted.

In case of any difficulty, please contact us at +49 – 8024 – 4 99 00!